UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,306	04/16/2002	Francis Showering	NOVAP100US	8228
Himanshu S A	7590 07/03/2007		EXAM	INER
Amin & Turoc	y	SMALLEY, JAMES N		
National City Center 24th Floor 1900 East 9th Street Cleveland, OH 44114			ART UNIT	PAPER NUMBER
			3781	
			MAIL DATE	DELIVERY MODE
			07/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		No			
- S	Application No.	Applicant(s)			
	10/009,306	SHOWERING, FRANCIS			
Office Action Summary	Examiner	Art Unit			
	James N. Smalley	3781			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- nd will apply and will expire SIX (6) MON ute, cause the application to become AB	CATION. apply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 13	<i>June 2007</i> .				
<u> </u>	a) This action is FINAL . 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	r Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 58-75 is/are pending in the applicat 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 58-75 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a complex and	ccepted or b) objected to let objected to let objected to let objected in abeyant oction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)		ummary (PTO-413)			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date)/Mail Date formal Patent Application 			

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Application/Control Number: 10/009,306 Page 2

Art Unit: 3781

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114 was filed in this application after a decision by the Board of Patent Appeals and Interferences, but before the filing of a Notice of Appeal to the Court of Appeals for the Federal Circuit or the commencement of a civil action. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 13 June 2007 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 58-75 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bosl et al. US 5,848,717 in view of Ohmi et al. US 5,762,217.

Bosl '717, in the embodiment of fig. 1, teaches a plastic closure for bottles, comprising a plastic cap (1) snap-fit over a bottle opening (4), a retaining bead (3) with a lead-in ramp surface and abutment surface inclined at an angle less than the inclination of the ramp surface, interlocking with a container neck bead (5). The disclosure teaches the cap is capable of sealing against positive internal pressure, for example, that caused by "carbonated beverages" (col. 2, line 56). The cap only seals against the bottle opening top and exterior surfaces.

Bosl '717 does not teach a plurality of segmented lugs braced by a band.

Ohmi '217 discloses a Resin Cap, comprising a cap (1) with a segmented skirt comprising a plurality of lugs (4a), and ring (2) configured for retaining the cap in the applied position. The ring is

Application/Control Number: 10/009,306

Art Unit: 3781

connected to the skirt by a plurality of frangible bridges (11), which also comprise "vertical ridges" (see fig. 22). Furthermore, the band provides tamper-evidencing (col. 1, lines 61-62) and allows the cap to be easily removed, without the use of a tool (col. 3, lines 10-20). Ohmi '217 further discloses in col. 7, lines 17-20, "one bridge portion may be provided in a skirt piece 4a, or two bridge portions may be provided on both ends of skirt piece 4a." In an embodiment providing two bridge portions (11) to each segmented lug/skirt piece (4a), the reference anticipates the limitation, "a plurality of vertical ridges." Being formed of plastic, the frangible connections are inherently capable of collapsing to some degree.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the closure cap of Bosl '717, providing a segmented skirt and band, braced by two vertical ridges/bridge portions, as taught by Ohmi '217, motivated by the benefit of locking the cap to a container, providing tamper evidencing, and allowing the cap to be easily removed without the use of a tool. It has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *St. Regis Paper Co. v. Bemis Co.*, 193 USPQ 8.

Regarding claim 62, Bosl '717 does not teach the diameter of the container, although the closure could be molded to fit any sized container.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the size of the closure cap of Bosl '717 to have a lateral dimension of 4 cm, or any other suitable size, motivated by the benefit of sealing a like-sized container. Furthermore, it has been held that a change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

Regarding claim 63, Bosl '717 does not teach the range of internal pressures the closure is capable of withstanding. The invention is drawn to withstanding internal pressures, especially those created by the containment of carbonated beverages.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the cap to withstand at least 60 psi, or any other internal pressure, motivated by the benefit of preventing blow-off of the cap from the container due to internal pressure caused by a carbonated beverage.

Application/Control Number: 10/009,306

Art Unit: 3781

4. Claims 58-75 are rejected under 35 U.S.C. 103(a) as being unpatentable over Towns et al. US 5,368,178 in view of Ohmi et al. US 5,762,217.

Towns '178 teaches a plastic closure for bottles, comprising a plastic cap (10) snap-fit over a bottle opening (43), a retaining bead (35) with a lead-in ramp surface (37) and abutment surface (34) inclined at an angle less than the inclination of the ramp surface, interlocking with a container neck bead (49). The disclosure teaches the cap is capable of sealing against positive internal pressure, for example, that caused by "carbonated beverages" (col. 1, lines 6-10). The cap only seals against the bottle opening top and exterior surfaces.

Towns '178 does not teach a plurality of segmented lugs braced by a band.

Ohmi '217 discloses a Resin Cap, comprising a cap (1) with a segmented skirt comprising a plurality of lugs (4a), and ring (2) configured for retaining the cap in the applied position. The ring is connected to the skirt by a plurality of frangible bridges (11), which also comprise "vertical ridges" (see fig. 22). Furthermore, the band provides tamper-evidencing (col. 1, lines 61-62) and allows the cap to be easily removed, without the use of a tool (col. 3, lines 10-20). Ohmi '217 further discloses in col. 7, lines 17-20, "one bridge portion may be provided in a skirt piece 4a, or two bridge portions may be provided on both ends of skirt piece 4a." In an embodiment providing two bridge portions (11) to each segmented lug/skirt piece (4a), the reference anticipates the limitation, "a plurality of vertical ridges." Being formed of plastic, the frangible connections are inherently capable of collapsing to some degree.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the closure cap of Towns '178, providing a segmented skirt and band, braced by two vertical ridges/bridge portions, as taught by Ohmi '217, motivated by the benefit of locking the cap to a container, providing tamper evidencing, and allowing the cap to be easily removed without the use of a tool. It has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *St. Regis Paper Co. v. Bemis Co.*, 193 USPQ 8.

Regarding claim 62, Towns '178 does not teach the diameter of the container, although the closure could be molded to fit any sized container.

Art Unit: 3781

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the size of the closure cap of Towns '178 to have a lateral dimension of 4 cm, or any other suitable size, motivated by the benefit of sealing a like-sized container. Furthermore, it has been held that a change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

Regarding claim 63, Towns '178 does not teach the range of internal pressures the closure is capable of withstanding. The invention is drawn to withstanding internal pressures, especially those created by the containment of carbonated beverages.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the cap of Towns '178 to withstand at least 60 psi, or any other internal pressure, motivated by the benefit of preventing blow-off of the cap from the container due to internal pressure caused by a carbonated beverage.

Response to Arguments

5. Applicant's arguments filed 13 June 2007 have been fully considered but they are not persuasive.

Applicant argues Ohmi et al. fails to teach a plurality of vertical ridges positioned on each closure lug.

In reply to the argument, Examiner again refers to col. 7, lines 12-20, teaching:

"The number of the bridge portions 11 provided between the skirt portion 4 of the cap proper and the ring member 2 is such that the skirt piece 4a between adjoining cuts 9, 9 and the ring member 2 is connected via at least one bridge portion 11. The position of providing the bridge portion 11 may be variously provided. For example, as shown in FIG. 2, one bridge portion may be provided in a skirt piece 4a, or two bridge portions may be provided on both ends of the skirt piece 4a. The position and the number are not particularly limited so long as at the time of closing the cap, the breakage of the bridge portions is prevented and at the time of opening the cap, the bridge portions can be easily broken."

Because the reference teaches the number of frangible bridges - - which inherently have some measurable vertical component and thus comprise vertical ridges - - is taught to be irrelevant in view of the more important goal of ensuring sealing and ease of fracture, along with the fact the reference

Application/Control Number: 10/009,306

Art Unit: 3781

explicitly teaches an embodiment with two frangible bridges per skirt portion/lug, and in view of St. Regis

Paper Co. v. Bemis Co., 193 USPQ 8, that Ohmi et al. properly teaches the claimed invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to James N. Smalley whose telephone number is (571) 272-4547. The examiner can

normally be reached on Monday - Friday 10 am - 7 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Anthony Stashick can be reached on (571) 272-4561. The fax phone number for the organization where

this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative

or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

SUPERVISORY PATENT EXAMINER

Page 6

TECHNOLOGY CENTER 3700